

ication No PCT/GB 03/03272

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16L13/02 F16L55/165

According to International Patent Classification (IPC) or to both national classification and IPC

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.	
γ .	US 5 566 984 A (ABBEMA WILLIAM D ET AL) 22 October 1996 (1996-10-22)	1-6,8-12	
Α	column 1, line 9 - line 51 column 5, line 25 -column 11, line 15; figures 3,5-7	7	
Υ .	WO 02 33298 A (MCINTYRE STUART ;BOREAS CONSULTANTS LTD (GB)) 25 April 2002 (2002-04-25) cited in the application page 1, line 3 -page 4, line 11; figure 1	1-3	
Υ	US 4 681 349 A (KRIEG JOHN ET AL) 21 July 1987 (1987-07-21)	4-6,8-12	
A	column 2, line 18 - line 57 column 6, line 9 - line 56 column 8, line 20 - line 32; figures 8,16-19,24,25	1,7	
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X Patent family members are listed in annex.
 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of mailing of the International search report 05/11/2003
Authorized officer Vecchio, G





C (Continue	PC 1/GB U3/U32/Z								
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.									
A _.	US 5 988 691 A (CRUICKSHANK JOHN DUNCAN) 23 November 1999 (1999-11-23) column 4, line 53 -column 6, line 55; figures 1,3	1,4-11							
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